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A.D. 1884, *5th November.* N° 14,607.

Improvements in the Manufacture of Asbesto-metallic Cloth.

PROVISIONAL SPECIFICATION.

We SAMUEL TURNER of Spotland Works Rochdale in the County of Lancaster and JOHN BELL of 118 Southwark Street London, Asbestos Manufacturers do hereby declare the nature of the invention for "IMPROVEMENTS IN THE MANUFACTURE OF ASBESTO-METALLIC CLOTH" to be as follows:—

The object of our said invention is to manufacture a woven fabric chiefly of asbestos which shall be firm and close and shall be capable of bearing a greater tensile strain and resist pressure and heat better than the asbestos cloth as usually made is capable of.

The invention consists in the manufacture of a cloth by the combination of a fine hard spun asbestos thread for warp, and a weft composed of fine brass, copper or other suitable wire; or from a wire warp and a hard spun asbestos thread for weft, which latter we consider preferable.

The object of combining the wire with the asbestos thread or yarn in the manufacture of cloth is to obtain a fine firm and close texture of fabric of great strength for various purposes. For instance it may be used with advantage in making tight the joints of steam pipes and for packing for the stuffing boxes of steam engines and for other similar purposes.

Asbestos fibre possesses the property of resisting the action of heat to a great extent; but it is lacking in tensile strength, consequently cloth made entirely from asbestos yarn, though capable of resisting great heat is liable to give way when subjected to high pressure, and the introduction of wire in the manner herein set forth acts as a binder to the asbestos yarn and adds greatly to the strength of the fabric and its suitability for such and various other purposes.

Dated the 4th day of November 1884.

GEORGE DAVIES,
Agent for the Applicants,
4, St. Ann's Square, Manchester.

[*Price* 2*d.*]

Improvements in the Manufacture of Asbesto-metallic Cloth.

COMPLETE SPECIFICATION.

We SAMUEL TURNER of Spotland Works Rochdale in the County of Lancaster and JOHN BELL of 118 Southwark Street London, Asbestos Manufacturers do hereby declare the nature of our invention for "IMPROVEMENTS IN THE MANUFACTURE OF ASBESTO-METALLIC CLOTH" and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

The object of our said invention is to manufacture a woven fabric principally of asbestos which shall be firm and close and shall be capable of bearing a greater tensile strain and resist pressure and heat better than the asbestos cloth as usually made is capable of.

The invention consists in the manufacture of a cloth by the combination of a fine hard spun asbestos thread for warp, and a weft composed of fine brass, copper or other suitable wire, or from a wire warp and a hard spun asbestos thread for weft, which latter we consider preferable.

The object of combining the wire with the asbestos thread or yarn in the manufacture of cloth is to obtain a fine firm and close texture of fabric of great strength for various purposes.

For instance it may be used with advantage in making tight the joints of steam pipes, and for packing for the stuffing boxes of steam engines and for other similar purposes.

Asbestos fibre possesses the property of resisting the action of heat to a great extent (but it is lacking in tensile strength) consequently cloth made entirely from asbestos yarn though capable of resisting great heat, is liable to give way when subjected to high pressure and the introduction of wire in the manner herein set forth acts as a binder to the asbestos yarn and adds greatly to the strength of the fabric and its suitability for such and various other purposes.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed I declare that what we claim is

First the manufacture of a cloth by the combination of a fine hard spun asbestos thread for warp and a weft composed of fine brass copper or other suitable wire.

Secondly we claim the manufacture of a cloth by the combination of a warp of fine brass copper or other suitable wire with a weft of hard spun asbestos thread.

Thirdly we claim as a new article of manufacture the combined asbesto-metallic cloth woven in the manner hereinbefore described.

Dated this 8th day of May 1885.

GEORGE DAVIES,
Agent for the Applicant,
4, St. Ann's Square, Manchester.

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